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**(54) OVERVOLTAGE
DETECTING CIRCUIT**

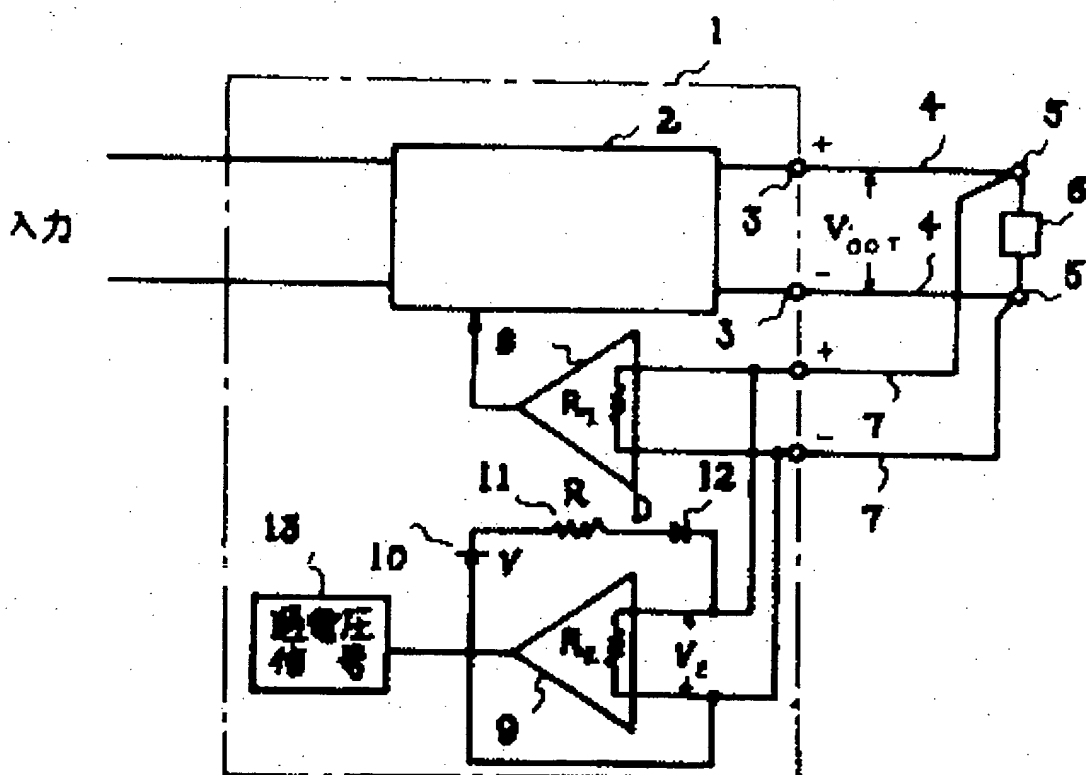
(57) Abstract:

PURPOSE: To protect a load even if remote sensing lines are disconnected by applying voltage higher than an overcurrent detected value and other than a DC source output to the input of an overvoltage detecting circuit for said DC source output through resistors.

CONSTITUTION: A line 4

connects between the output terminals 3 of a DC source 1 and load ends 5 to supply electric power to a load 6. An output is sent from the load ends 5 to an error detecting circuit 8 and an overvoltage detecting circuit 9 through remote sensing lines 7 and the output of the circuit is supplied to a DC amplifier circuit 2 to control the voltage of the load ends 5 to a prescribed value. Voltage higher than the overvoltage detected value is previously applied from a constant voltage source 10 to the input of the circuit 9 through a resistor (R) 11 and a diode (D) 12. In this case the input voltage of the circuit 8, 9 depends upon the voltage of the load ends 5 when the lines 7 are connected to load ends 5, and when disconnected, said input voltage depends upon the voltage of the power source 10 through the R11 and D12 to stop power supply through an overvoltage signal 13.

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